

EXHIBIT 1



Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)		RE <div style="font-size: 1.5em; font-weight: bold;">102614158</div> <div style="font-size: 1.2em; font-weight: bold;">PATENTS ONLY</div>		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof					
1. Name of conveying party(ies): Yin L. Liong (11/17/2003), Roberto Barnes (11/17/2003), and Man Li (11/18/2003)			2. Name and address of receiving party(ies) Name: <u>Nokia Corporation</u> Internal Address: _____ Street Address: <u>Keilalahdentie 4</u> City: <u>Espoo</u> Country: <u>Finland</u> Zip: <u>02150</u> Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>see Box 1, conveying parties</u>		
4. Application number(s) or patent number(s): <u>10719371</u> If this document is being filed together with a new application, the execution date of the new application is: <u>November 21, 2003</u> A. Patent Application No.(s): <u>This application</u> B. Patent No.(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Gregory T. Kavounas</u> <u>DARBY & DARBY P.C.</u> Internal Address: <u>Atty. Dkt.: 08212/1200285-US1</u> Street Address: _____ <u>P.O. Box 5257</u> City: <u>New York</u> State: <u>NY</u> Zip: <u>10150-5257</u>			6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed) 8. Deposit account number: <u>04-0100</u> (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;"> <u>Gregory T. Kavounas - 37,862</u> Name of Person Signing </div> <div style="text-align: center;"> Signature </div> <div style="text-align: center;"> <u>November 21, 2003</u> Date </div> </div> <div style="text-align: right; margin-top: 10px;"> Total number of pages including cover sheet, attachments, and documents: <u>7</u> </div>					

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Express Mail Label No. EV398893674US Dated: November 21, 2003

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PATENT
REEL: 014741 FRAME: 0885

08212/1200285-US1

ASSIGNMENT
(Individual(s) to Company)

I, **Yin L. Liong**, a citizen of Hong Kong, China, residing at 64 Mill St. #10, Woburn, Massachusetts 01801;

I, **Roberto Barnes**, a citizen of Panama, residing at Sateenkaari 3 D68, 02100, Espoo, Finland; and

I, **Man Li**, a citizen of Canada, residing at 3 Overlook Drive, Bedford, Massachusetts 01730;

and each of us, if more than one person is identified above (hereinafter "ASSIGNOR") in consideration of the sum of One Dollar (\$1.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged, paid to ASSIGNOR by

Nokia Corporation

a Corporation organized under the laws of Finland, located at Keilalahdentie 4, 02150 Espoo, Finland (hereinafter "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, my entire right, title, and interest,

☐ in and for the United States of America only, or

☒ throughout the world,

in and to my invention entitled:

**USING POLICY-BASED MANAGEMENT TO SUPPORT
DIFFSERV OVER MPLS NETWORK**

invented by me and described in

☒ the specification filed concurrently herewith, and/or

☐ Patent Application Serial No. _____, filed on _____ and amended on _____, in The United States of America,

and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, said interest being

☒ my entire ownership interest

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☐ an undivided ____ percent of my entire ownership interest

in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors and assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date ☒ corresponding to the last date of execution, or ☐ of _____.

I declare under penalty of perjury under the laws of the United States of America that I have signed this document as my own free act and that all of the foregoing is true and correct.

Signed at Boston, MA, this 17th day of Nov, 2003


Yin L. Liong

Witnessed by:


Name: Lisa M. Zhe, Notary Public

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Signed at _____, this _____ day of _____, 2003.

Roberto Barnes

Witnessed by: _____

Name: _____

Signed at Boston, MA, this 18th day of November, 2003.

Man Li

Witnessed by: _____

Name: William Rapp

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08212/1200285-US1

ASSIGNMENT
(Individual(s) to Company)

I, **Yin L. Liong**, a citizen of Hong Kong, China, residing at 64 Mill St. #10, Woburn, Massachusetts 01801;

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I, **Man Li**, a citizen of Canada, residing at 3 Overlook Drive, Bedford, Massachusetts 01730;

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invented by me and described in

☒ the specification filed concurrently herewith, and/or

☐ Patent Application Serial No. _____, filed on _____ and amended on _____, in The United States of America,

and all patents, divisions, reissues, continuations and any extensions thereof and rights of priority therein, said interest being

☒ my entire ownership interest

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☐ an undivided ____ percent of my entire ownership interest

in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made;

And for the consideration aforesaid, I hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing therefrom is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors and assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and I hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And I hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

This assignment shall have an effective date ☒ corresponding to the last date of execution, or ☐ of _____.

I declare under penalty of perjury under the laws of the United States of America that I have signed this document as my own free act and that all of the foregoing is true and correct.

Signed at _____, this ____ day of _____, 2003

Yin L. Liong

Witnessed by: _____
Name: _____

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Signed at 13:30, this 17 day of NOVEMBER, 2003.

Roberto Barnes A.
Roberto Barnes

Witnessed by: [Signature]
Name: Vladimir Holchevov

Signed at _____, this _____ day of _____, 2003.

Man Li

Witnessed by: _____
Name: _____

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